

Slant/Fin[®] **SENTRY**[®]

High efficiency, cast-iron gas boiler



**LOWER PROFILE MAKES
PROBLEM INSTALLATIONS EASY**

The boiler you choose for your home now will affect your family's comfort--and pocketbook--for many years to come. Sentry boilers provide a blend of efficiency and reliability that will keep your home comfortably warm and your fuel costs low year after year. A new Sentry boiler can save up to 30% or more on fuel bills compared to a typical old boiler operating at 60% efficiency.

- **AGA input:**
"S" models 34,000 to 150,000 Btu/hr
"SX" models 150,000 to 210,000 Btu/hr
- **Low clearance**
- **Standing pilot or intermittent ignition.**
- **Saves energy. AFUE to 84.4%**

Sentry is ideal for a wide variety of gas boiler requirements, as a replacement or for new installations. Its advanced design provides years of trouble-free, high efficiency operation while providing easy installation, even in sites with low chimney connections or low overhead clearance.

Sentry is a reliable *natural draft* boiler. Many boilers resort to pulsing or condensing technologies, copper fin-tubes and thermal bypass valves to attain acceptable efficiency. Sentry achieves high efficiency with fewer components, so there's less chance of part failure or losing your heat. Sentry's efficiency to 84.4% is among the highest in the industry. Sentry's heat exchanger is made of quality cast-iron and assembled with durable metal push nipples. It's so reliable it comes with a lifetime limited warranty. Sentry boilers respond quickly to your thermostat's call for heat, sending heat within moments to radiators throughout your home.



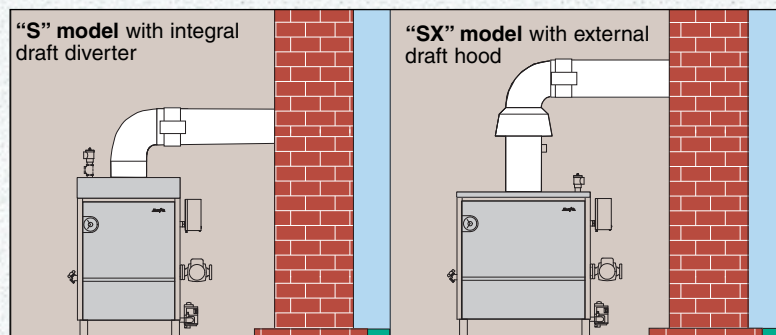
Low profile makes problem installations easy.

The Sentry boiler fits into replacement sites with low chimney breeching or low overhead clearance.

The Sentry "S" models include an integral draft diverter and do not require a draft hood. They fit into replacement sites with overhead clearance or chimney breeching as low as 38½ in. above the floor.* This is nearly a foot and a half less clearance than required by typical natural draft boilers. The rear flue outlet on "S" models keeps the vent pipe out of the way of water and gas piping. Installation is faster and trimmer. "SX" models utilize an external draft hood.

The computer-aided design of Sentry's venting system enables "S" and "SX" models to perform effectively under a wide range of draft conditions. Sentry is one of the industry's most versatile and durable high efficiency boilers.

*See installation instructions for specific applications and clearances.



LOW-PROFILE VERSATILITY. NATURAL DRAFT RELIABILITY

All "S" and "SX" models permit installation in sites with low chimney breeching or low overhead clearance.

homeowners.



Natural draft reliability and high efficiency too. Choose intermittent ignition or standing pilot.

Enjoy the easy installation and reliable operation that natural draft design provides, plus high efficiency too. With intermittent pilot ignition, Sentry AFUE's range from 83.1% to 84.4%.

Standing pilot AFUE to 83% — highest in the industry!

Sentry standing pilot models are the most efficient in the industry, according to the I=B=R Boiler Ratings directory. Now, with AFUE's to 83%, you can enjoy standing pilot reliability and high efficiency too!

All models include an automatic vent damper.

Computer-aided design. Highest quality manufacturing. Superior components.

Advanced design heat exchanger with metal push nipples provides superior performance, longer life.

Computer-aided design of heat exchanger maximizes transfer of heat from the gas flame to the boiler water which then flows into your heating system. Superior heat transfer properties permit use of smaller, compact cast-iron heat exchanger sections. The flue passage design, thermal pin pattern and consistent wall thickness ensure uniform heat transfer with less thermal strain and metal fatigue.

Metal push nipples avoid leaks.

Slant/Fin uses only metal push nipples that expand and contract with the individual boiler sections that they connect. In many ordinary boilers, flimsy rubber or plastic gaskets are substituted for metal push nipples and are subject to deterioration and leaks.



Reliable heavy-duty vent damper saves energy.

The motorized Slant/Fin vent damper increases efficiency of the boiler by reducing standby losses. Motor closes the chimney vent when the burner is off, fully opens it in anticipation of combustion. May be installed horizontally or vertically to accommodate varying vent pipe requirements. Heavy-duty collar maintains dimensional stability for smooth operation.

Vent damper shown on "S" model.



Insulated base

Base is constructed of heavy gauge aluminized steel. Thick refractory insulation surrounds combustion chamber, minimizing standby losses and increasing efficiency.

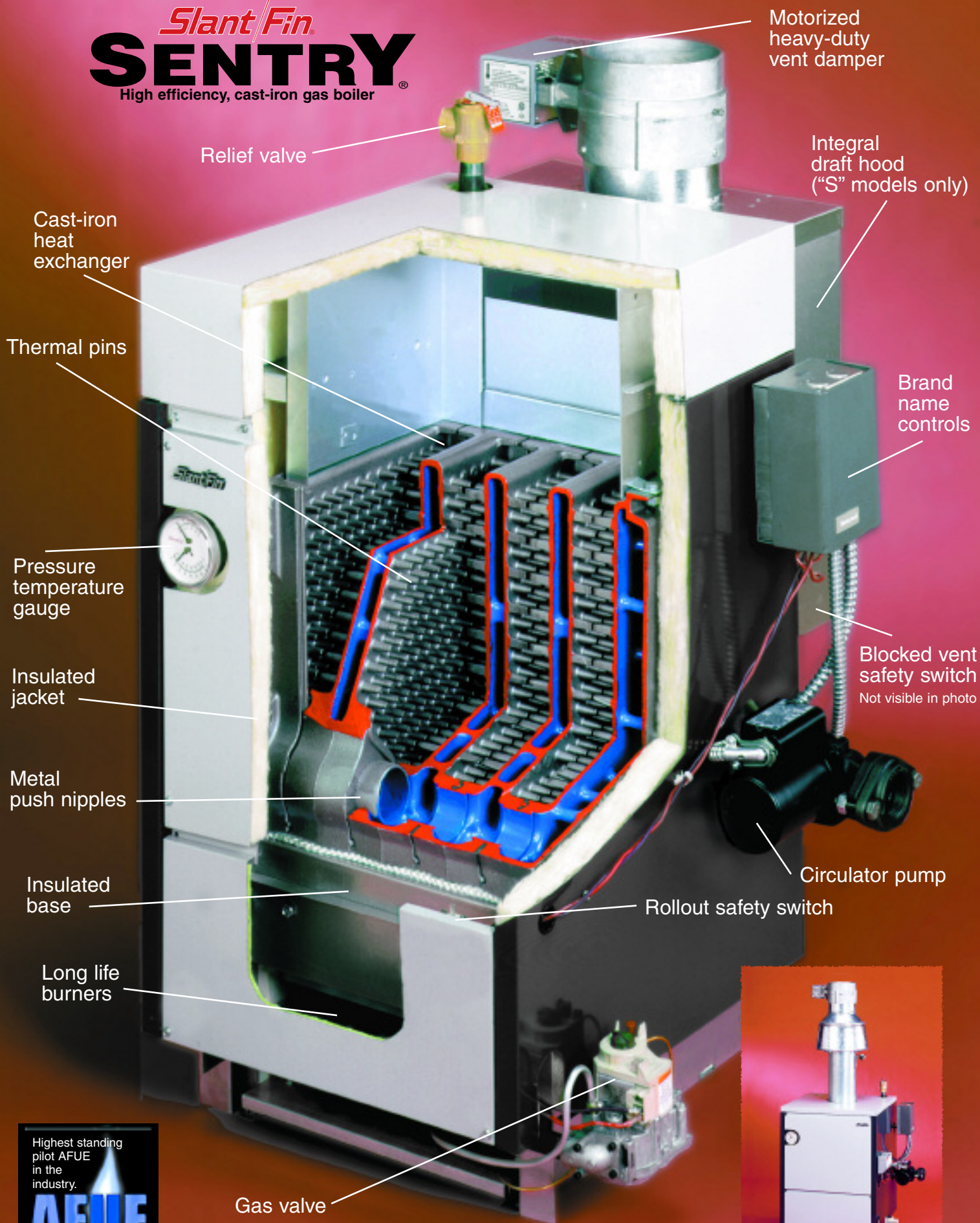


Long-life burners

Quiet, light and easy to install or remove. Same stainless steel burners serve natural or propane gas. Special port construction will not permit flame to "lift" or flash back. Sentry burners last longer too because of low operating temperature. Input per burner is only 15,000 Btu/hr.



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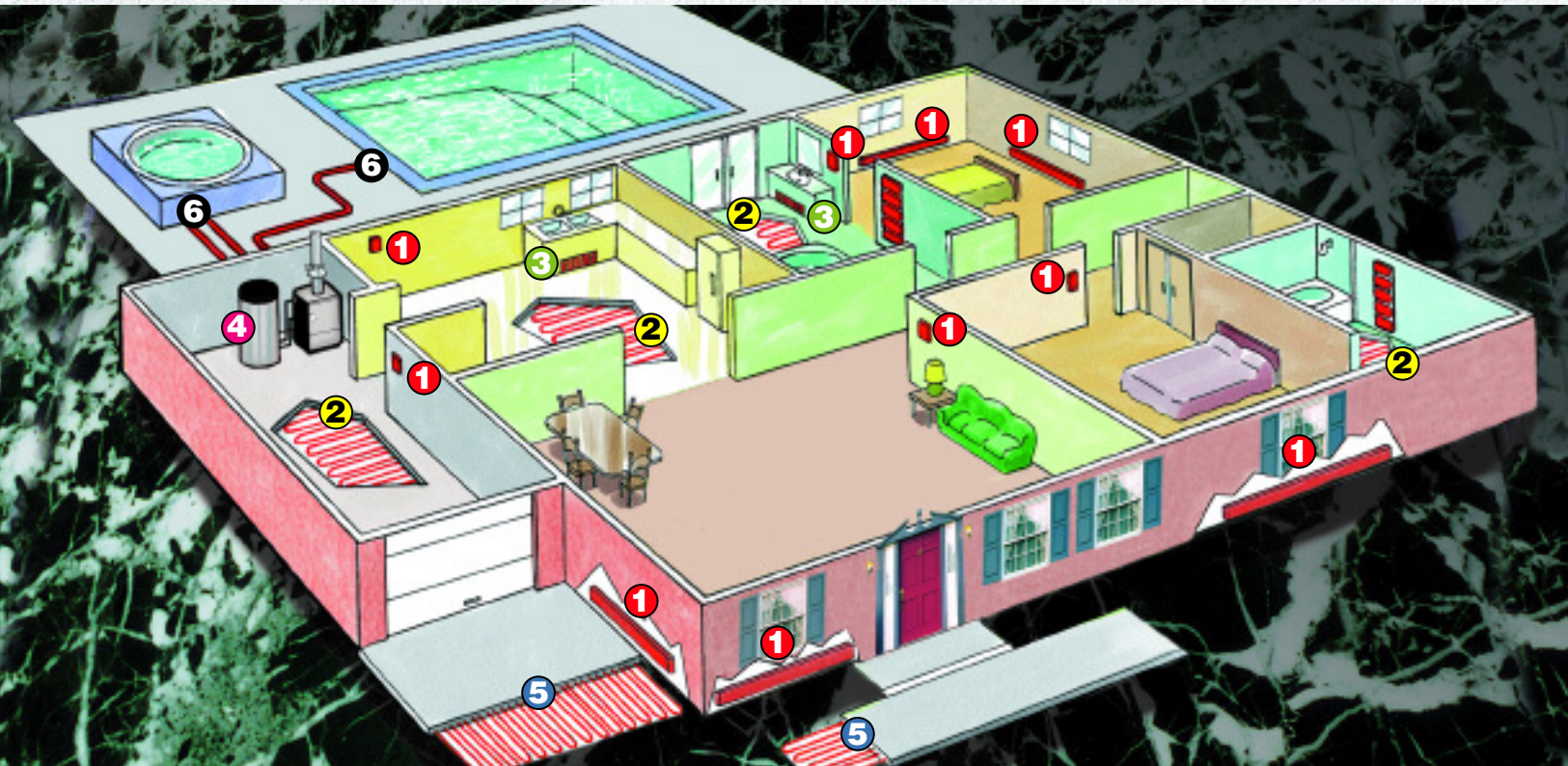
There are 3 Sentry SX models ranging in size from 150 to 210 MBh, A.G.A. input. SX models include an external draft hood.



Make your house a more comfortable home

With a Sentry boiler at the heart of your heating system, you can enjoy deluxe heating comfort all around your home. A Sentry boiler can be installed to provide heating energy for any or all these hydronic heating systems:

- ❶ Zone heating with Slant/Fin hot water baseboard and individual room temperature controls.
- ❷ Warm floors with Terra Thermo radiant heating by Slant/Fin.
- ❸ Slant/Fin hot water fan-convection heaters under cabinets or stairs.
- ❹ Hot water with a high volume Slant/Fin indirect-fired water heater.
- ❺ Snow melting for driveway and sidewalks with Terra Thermo radiant tubing.
- ❻ Pool or spa water heating with a Slant/Fin boiler and external heat exchanger.



Zone your heating system for even greater fuel savings. By dividing your home into separate heating zones, you can save energy by heating only those areas you're using. Depending on your existing piping arrangement, it may be quite simple to zone your system.

More hot water for your kitchen, bath and laundry

For a large reserve of hot water for your family all year long, your installer can provide a Slant/Fin Model WH indirect-fired water heater. It's connected just like a heating zone to the Sentry boiler and will store between 30 and 80 gallons of hot water. Tapping the boiler's heating capacity, the Slant/Fin water heater offers far better efficiency, faster recovery and longer life than an ordinary direct-fired water heater. The 40 gallon model, for instance, delivers 195 gallons of hot water per hour!



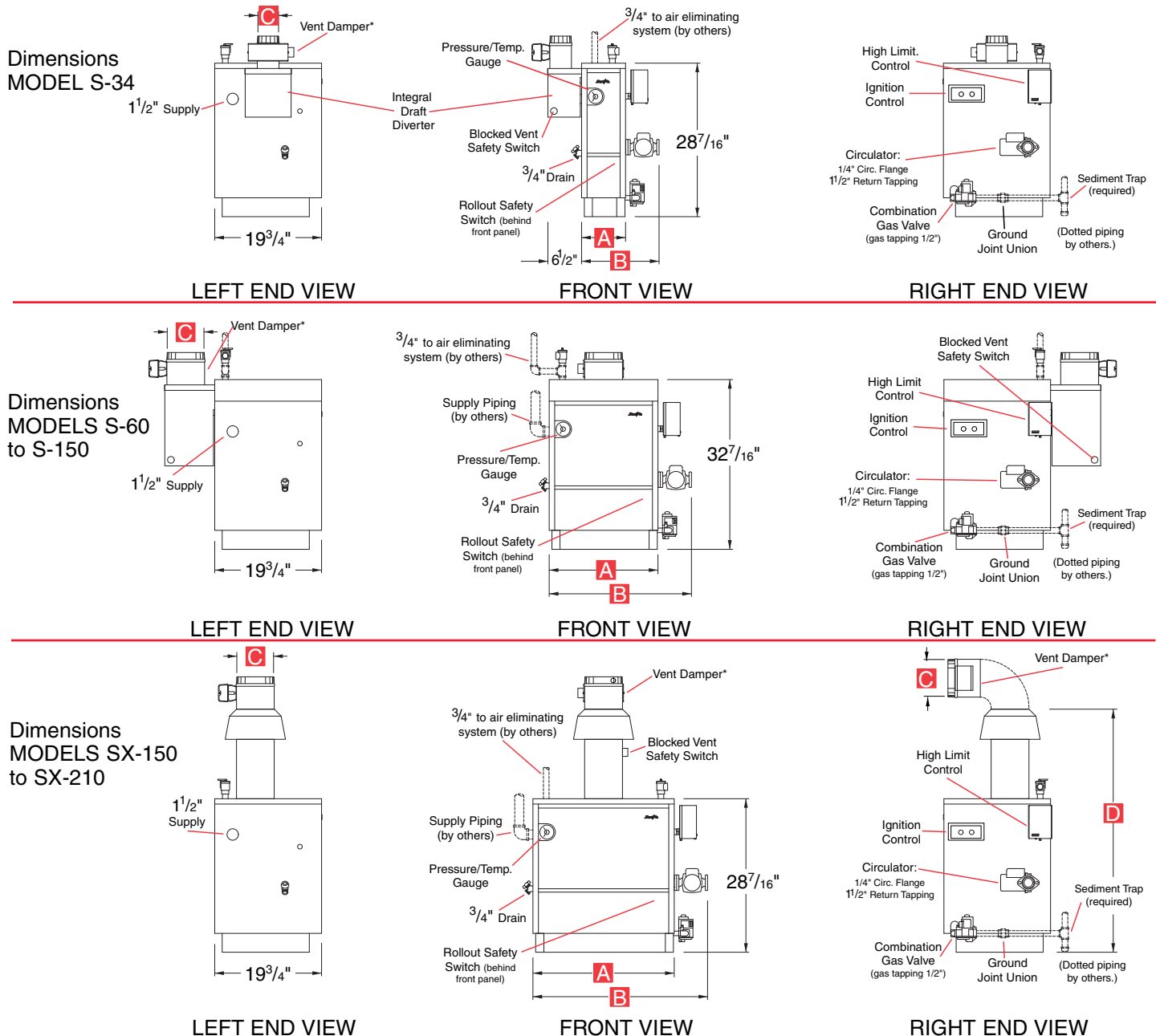
RATINGS FOR SENTRY BOILERS--NATURAL AND L.P. GAS

MODEL NUMBER †	A.G.A. INPUT (Btuh)	D.O.E. CAPACITY (Btuh)	NET I=B=R RATING WATER (Btuh) *	WATER (Sq.Ft.)	EFFICIENCY (A.F.U.E.%)		DIMENSIONS-Inches				
					STANDING PILOT	INTERMITTENT IGNITION	A	B	C-VENT DIAMETER		D
									INTEGRAL DRAFT DIVERTER	EXTERNAL DRAFT HOOD	
S-34	34,000	29,000	25,000	167	80.4	84.0	8½	14½	4	—	—
S-60	60,000	51,000	44,000	293	81.6	84.4	11½	17½	4	—	—
S-90	90,000	76,000	66,000	440	82.3	84.2	14½	20½	5	—	—
S-120	120,000	101,000	88,000	587	83.0	84.1	17½	23½	6	—	—
S-150	150,000	125,000	109,000	727	82.4	83.4	20½	26½	7	—	—
SX-150	150,000	126,000	110,000	733	82.1	83.2	20½	26½	—	6	47
SX-180	180,000	151,000	131,000	873	82.1	83.1	23½	29½	—	7	48¾
SX-210	210,000	175,000	152,000	1013	82.0	83.1	26½	32½	—	7	48¾



* Net ratings are based on a piping and pick-up allowance of 1.15. Slant/Fin should be consulted before selecting a boiler for installation having unusual piping and pick-up requirements. Ratings must be reduced by 4% at 2,000 feet elevation and an additional 4% for every additional 1,000 feet elevation over 2,000 feet.

† Type of gas: after model number, specify gas by name "Natural" or "Propane".
Note: All Sentry boilers are tested and rated for capacity under the U.S. Dept. of Energy (D.O.E.) Test Procedure for boilers.



*Vent damper may be installed horizontally on all models with use of a common vent elbow.



***Engineered for comfort,
safety and reliability.***

***Lower profile,
higher efficiency***



***Millions of homes are
equipped with Slant/Fin
hydronic heating.***

Slant/Fin®

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